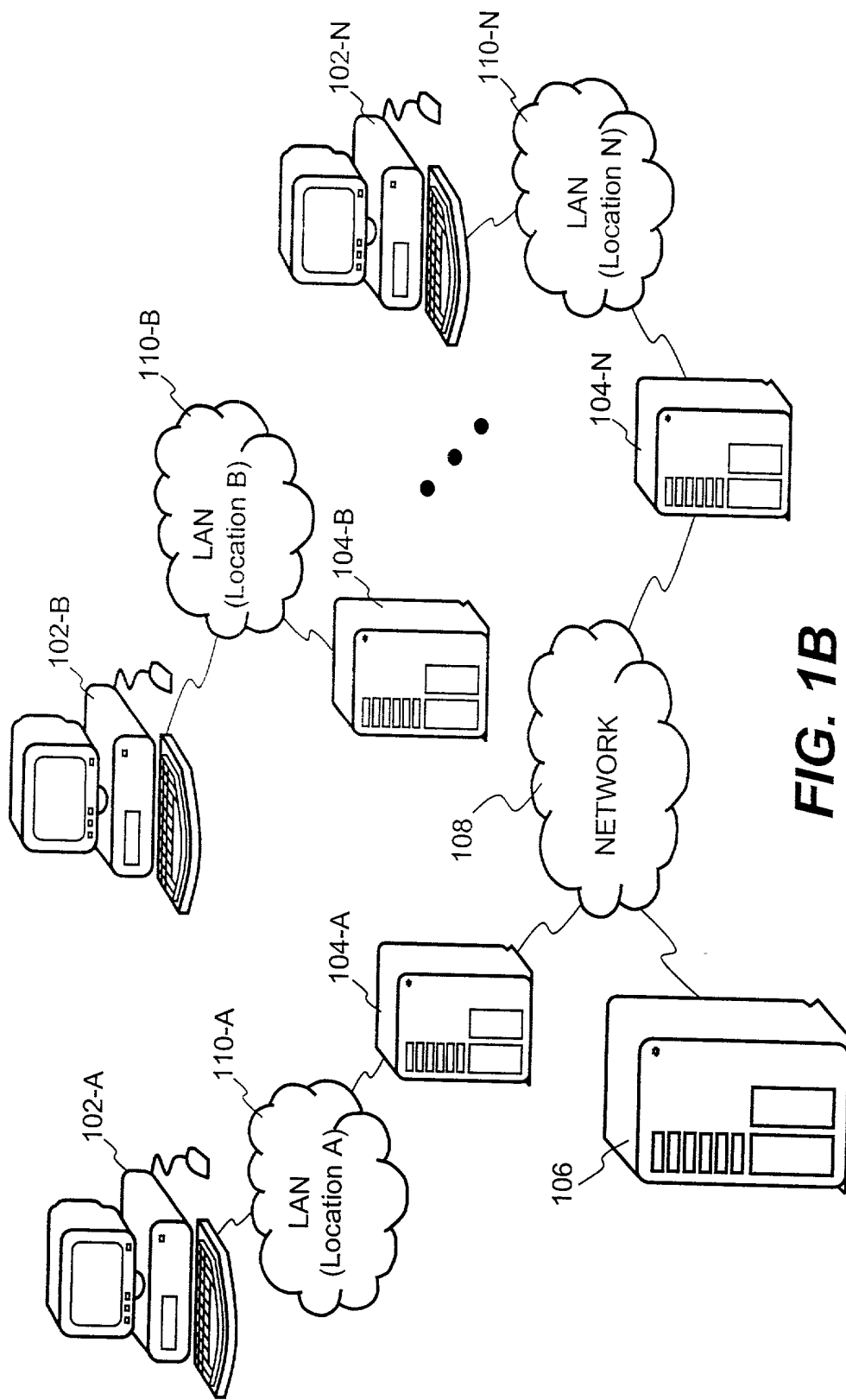
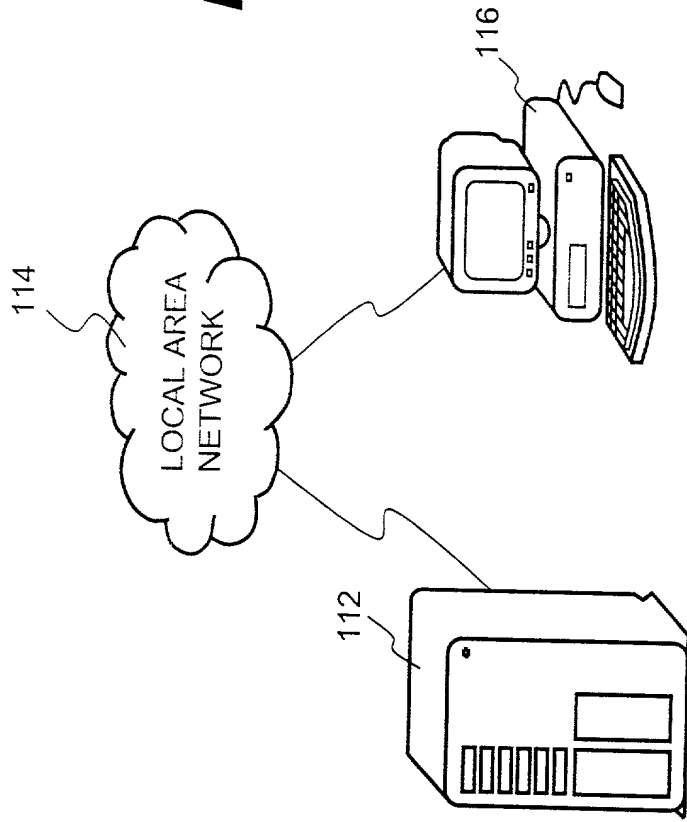


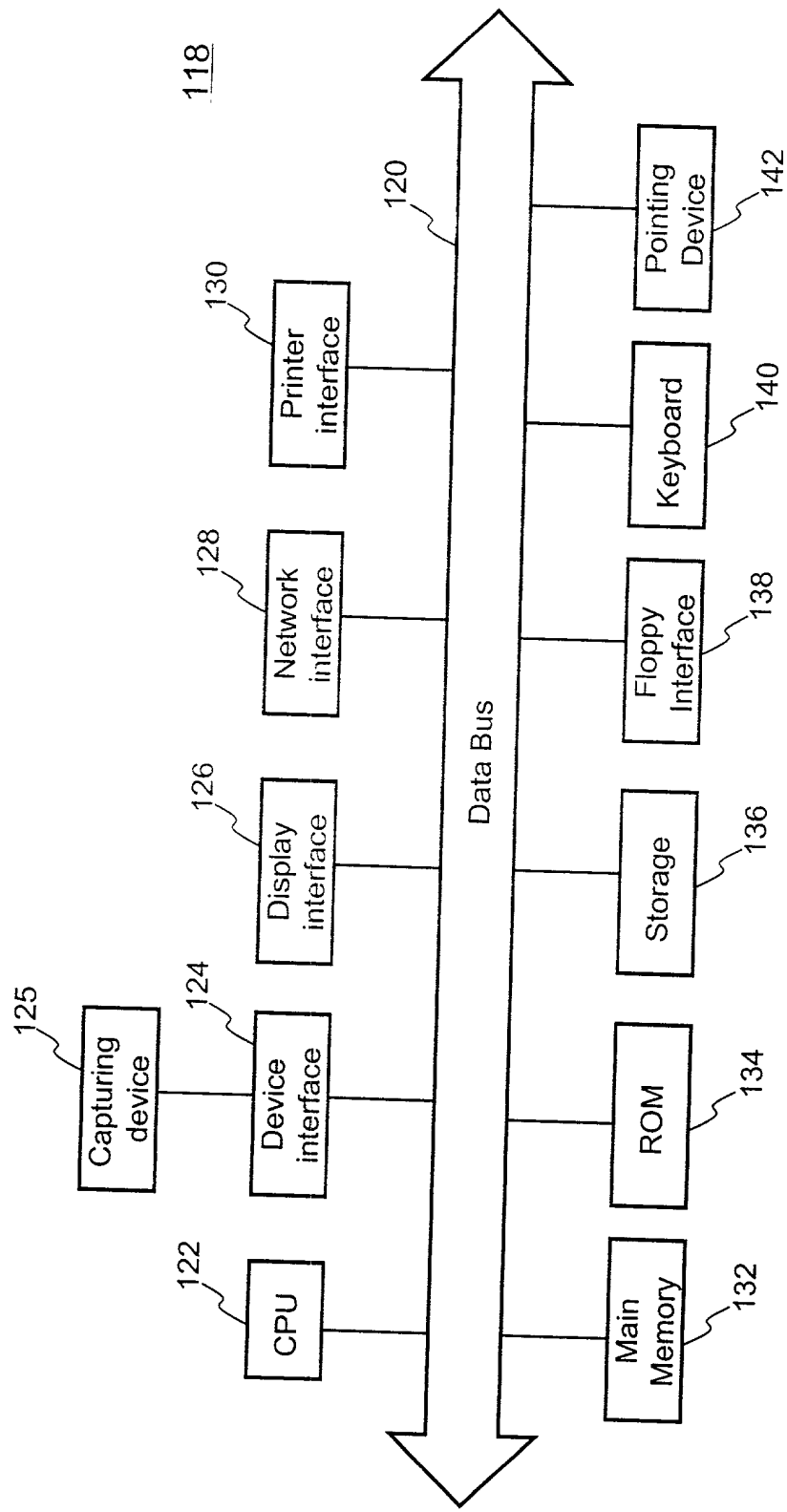
**FIG. 1A**



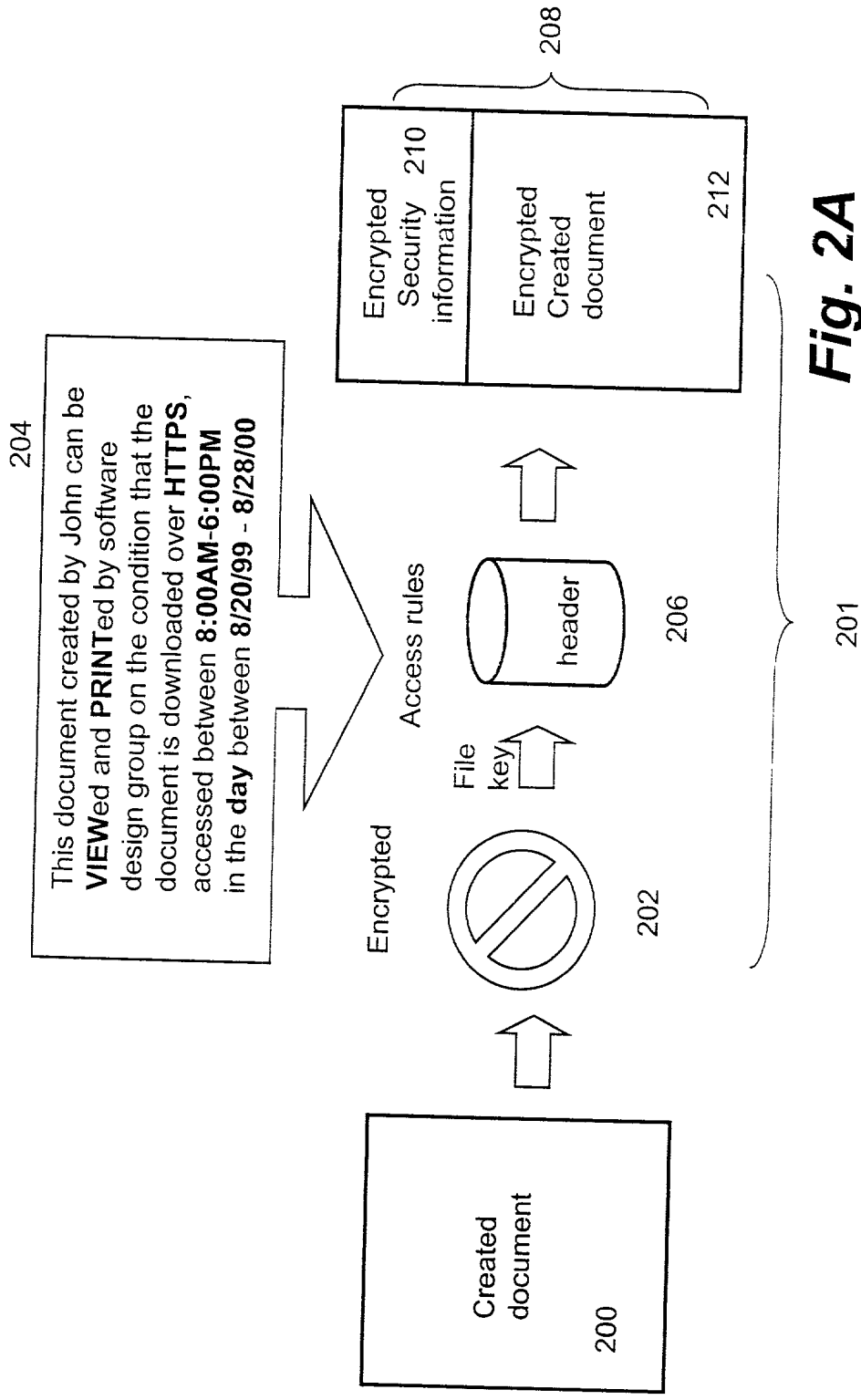
**FIG. 1B**

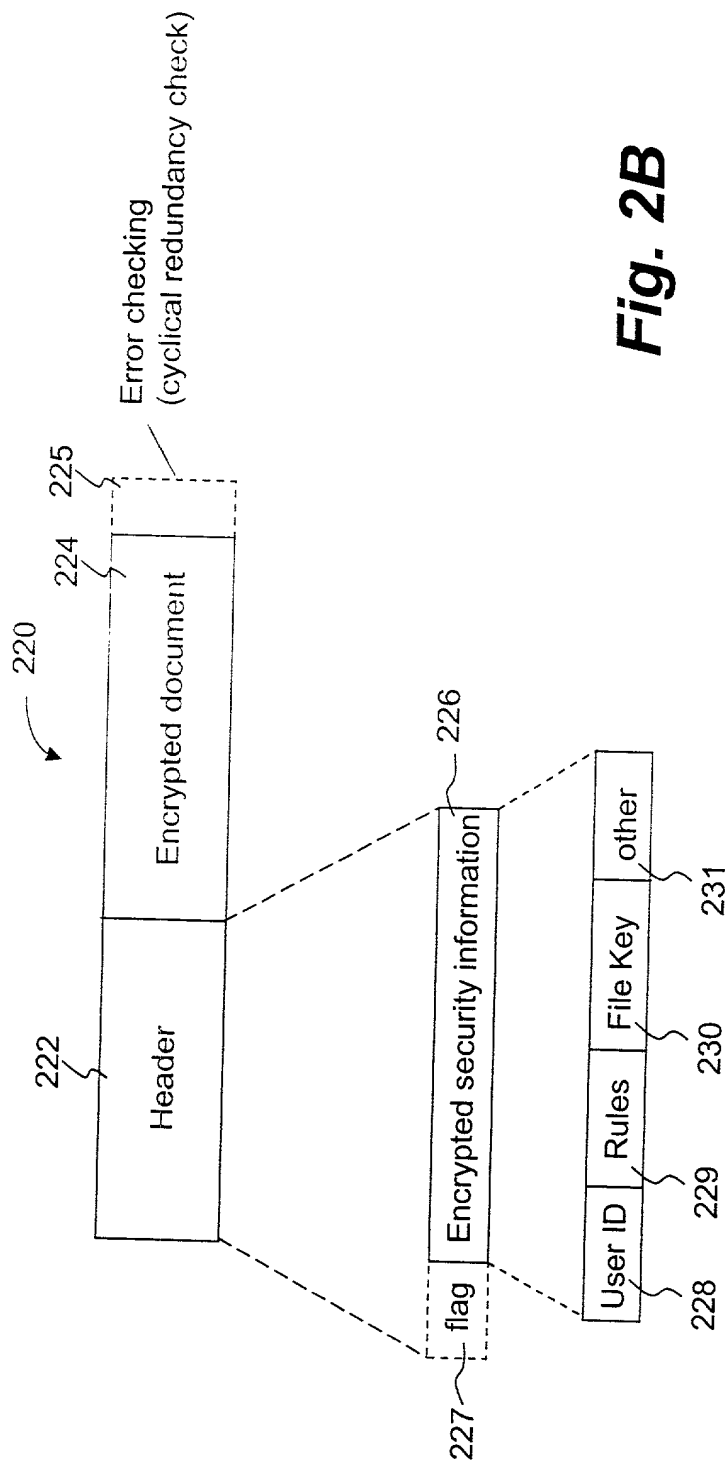


**FIG. 1C**



**Fig. 1D**





**Fig. 2B**

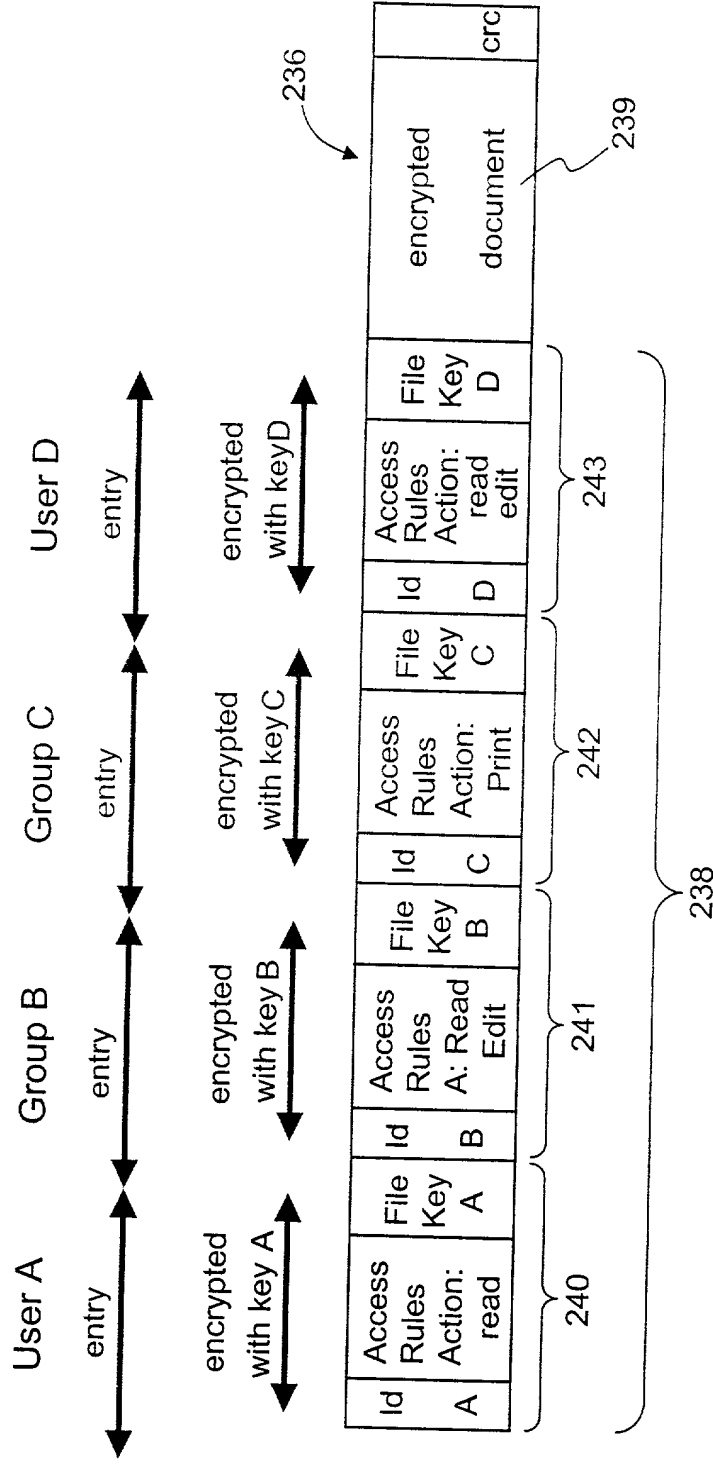


Fig. 2C.1

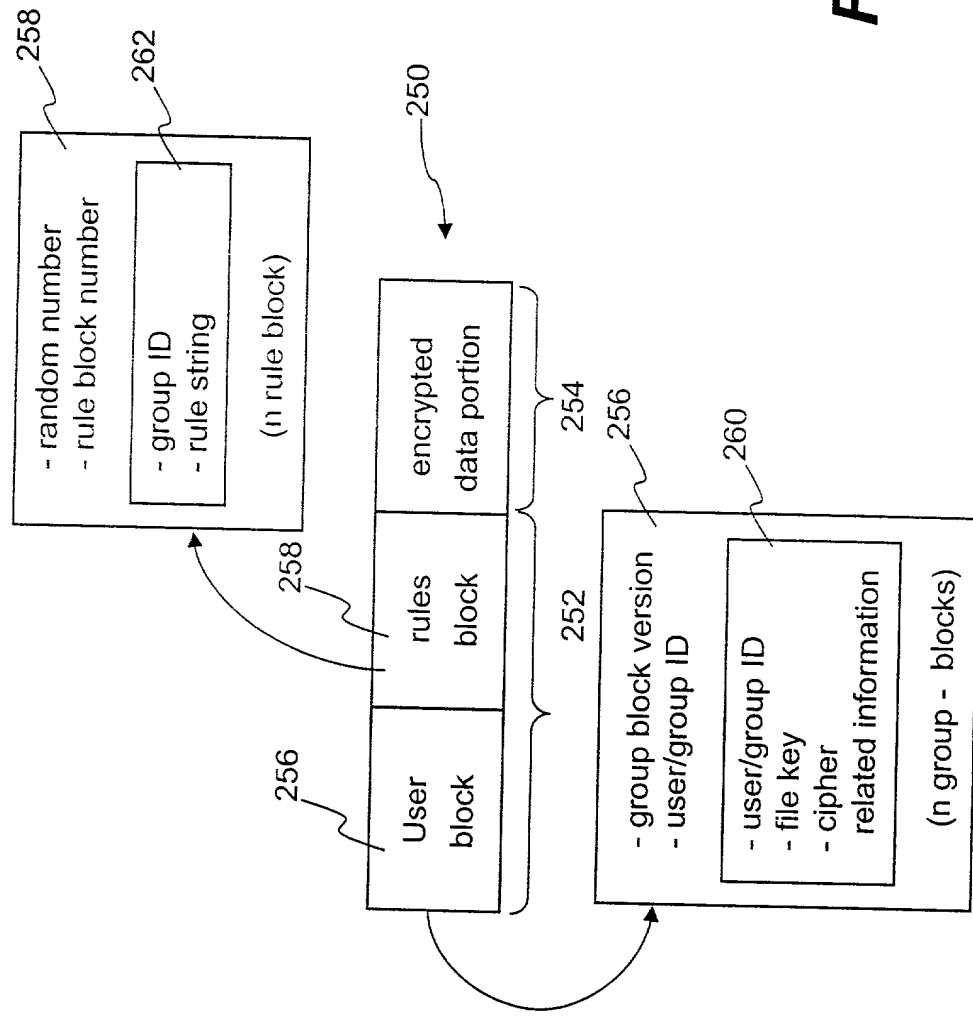


Fig. 2C.2



```

<header>
<header_version>
1.0
</header_version>
<header_blocks_list>
<key_blocks_list_version>
1.0
</key_blocks_list_version>
<key_block>
<key_block_version>
1.0
</key_block_version>
<group_id> www.xyz.com/marketing </group_id>
< ** /* encrypted with Marketing's public-key */
<group_id> www.xyz.com/marketing </group_id>
<crypto>
<dek_mat>P39GU439833IOOE9315UR93U3945U439</dek_mat>
<enc_algo>
<name>
RIJNDAEL
</name>
<key_size>
256
</key_size>
<block_size>
128
</block_size>
<enc_algo>
<ses_enc_block_size>
4096
</ses_enc_block_size>
</crypto>
**>
267
270

266
</key_block>
<key_block>
<key_block_version>
1.0 </key_block_version>
<group_id> www.xyz.com/engineering </group_id>
< ** /* encrypted with User1_Trivial_Group's public-key */
<group_id> www.xyz.com/engineering </group_id>
<crypto>
<dek_mat>P39GU439833IOOE9315UR93U3945U439</dek_mat>
<enc_algo>
<name>
RIJNDAEL
</name>
<key_size>
256 </key_size>
<block_size>
128 </block_size>
<enc_algo>
<ses_enc_block_size>
4096 </ses_enc_block_size>
</crypto>
**>
268
270

269
<secure-info encryption="dek" block-size="1024">
<rule_block version="1.0">
<group_id> www.xyz.com/marketing </group_id>
<rule_xml_string> ... </rule_xml_string>
</rule_block>
<rule_block version="1.0">
<group_id> www.xyz.com/engineering </group_id>
<rule_xml_string> ... </rule_xml_string>
</rule_block>
</secure-info>
271
272

</rule_blocks_list>
</header>

```

Fig. 2C.3

275

AdmGrp : GUI

Group to pickup users:

Group C

User Names

User 15  
User 16  
User 17  
User 18  
User 19

Add

Delete

Group to setup:

Group B

User Names

User 20  
User 21  
User 22  
User 23  
User 24  
User 25  
User 26  
User 27  
User 28  
User 29  
User 30

Rights about other groups:

☐ Adm Rights

☒ Close

☐ Grant group creation

☐ Grant to set or no closed groups

Default rights for files in this group:

☒ Read

☒ Update

☒ Delete

☐ Change group

Apply

Administrator Menu

Fig. 2D

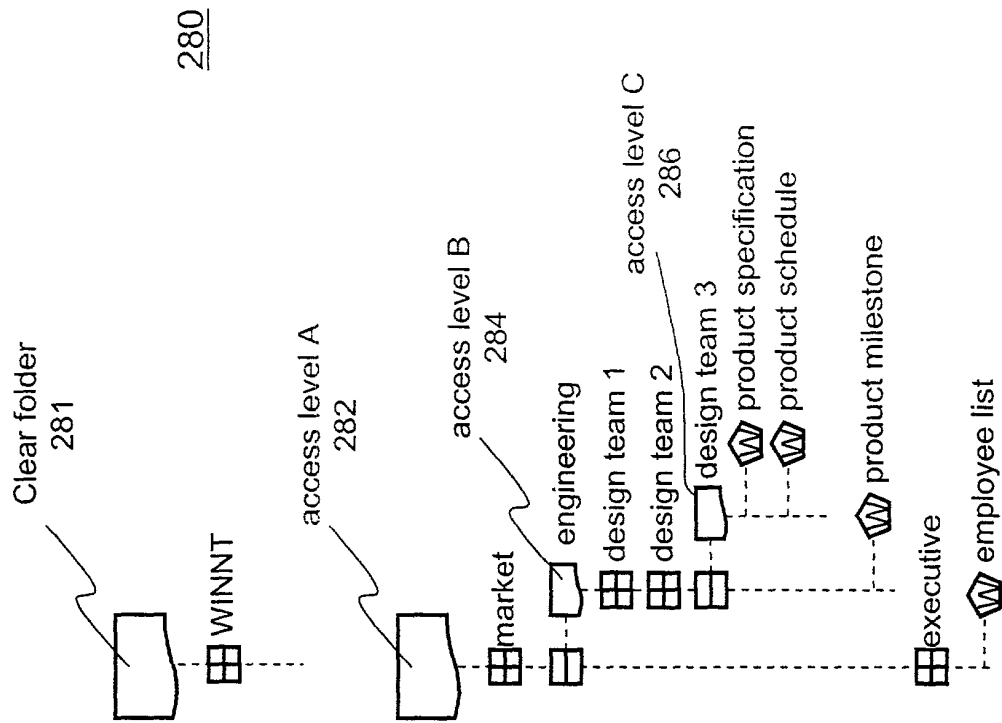
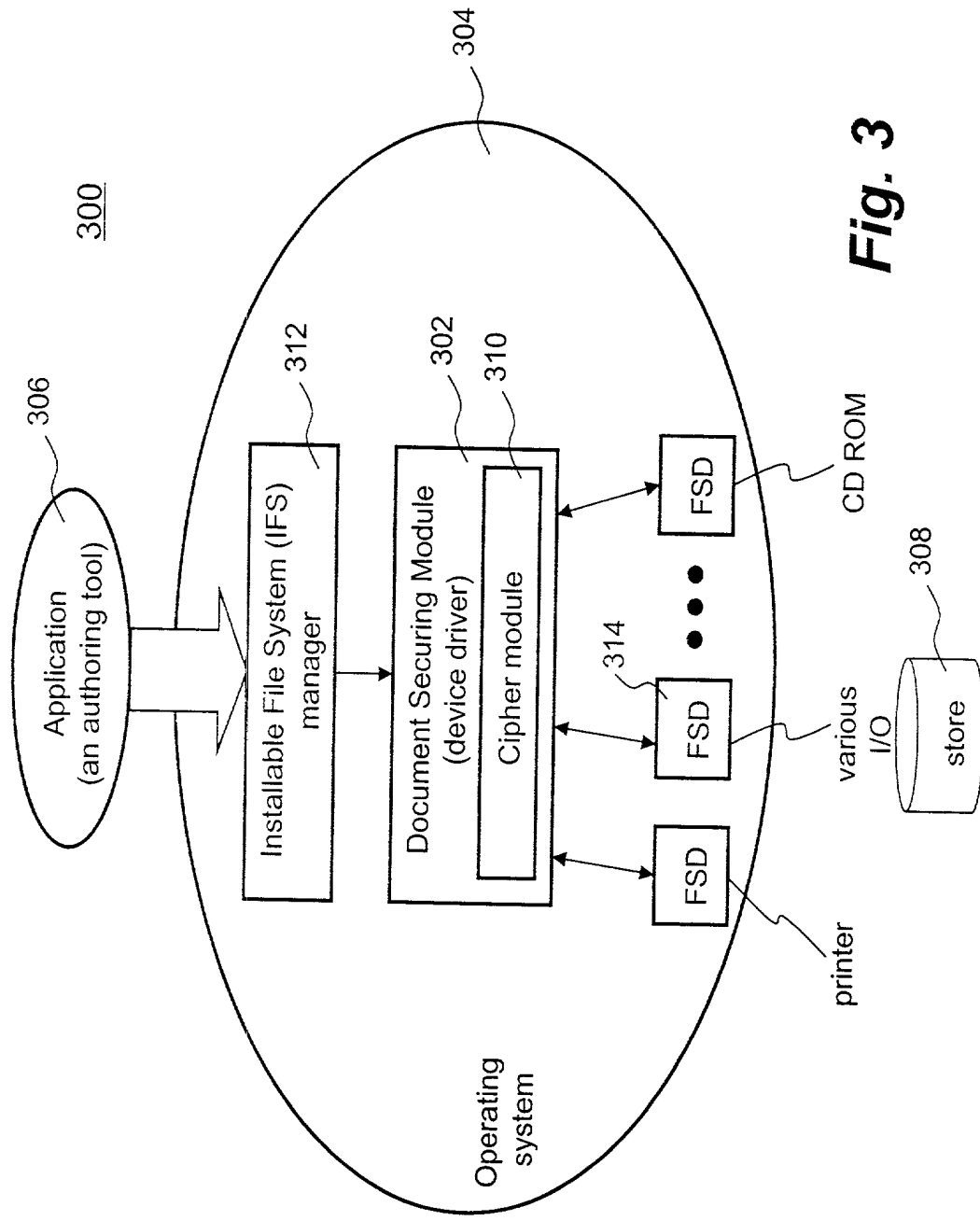
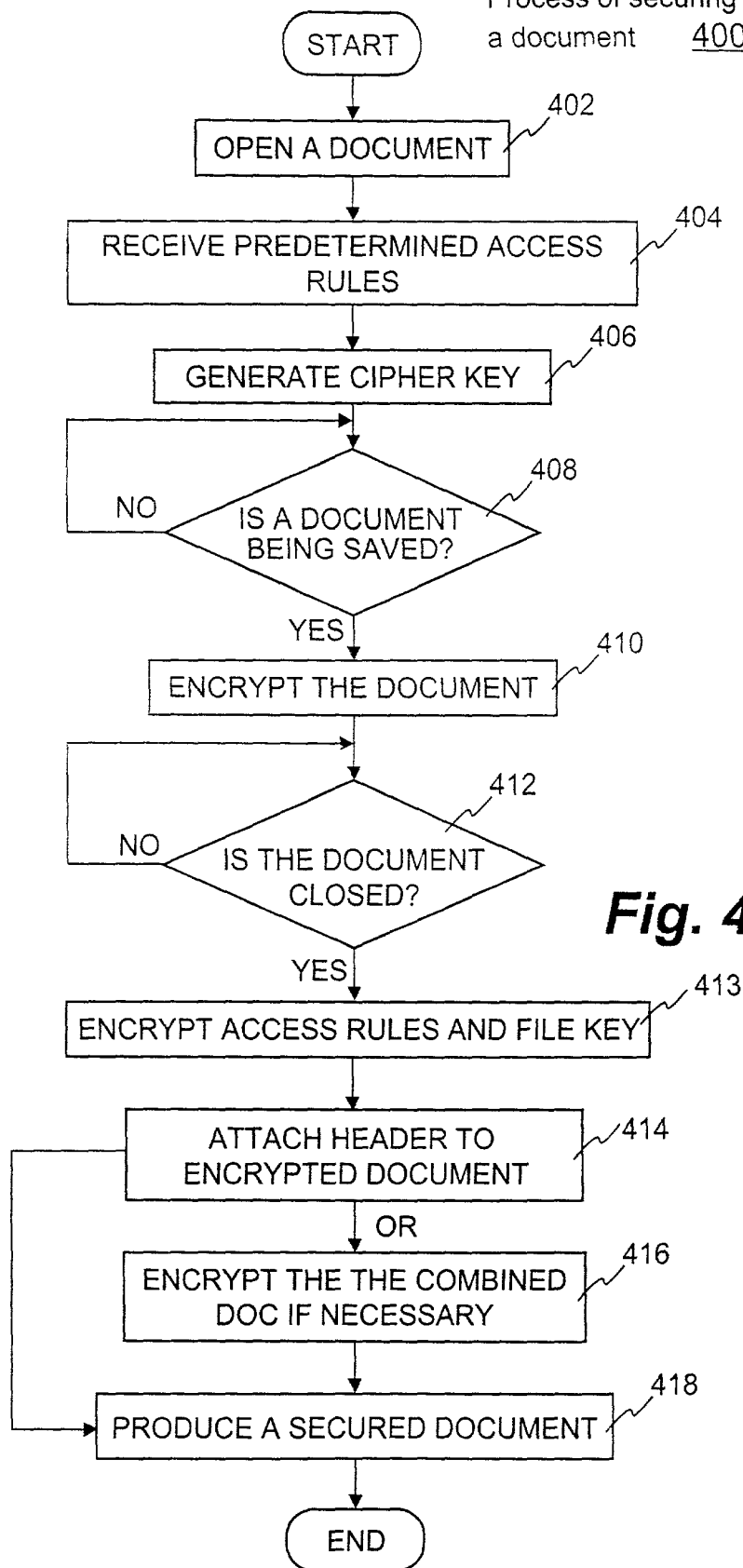


Fig. 2E



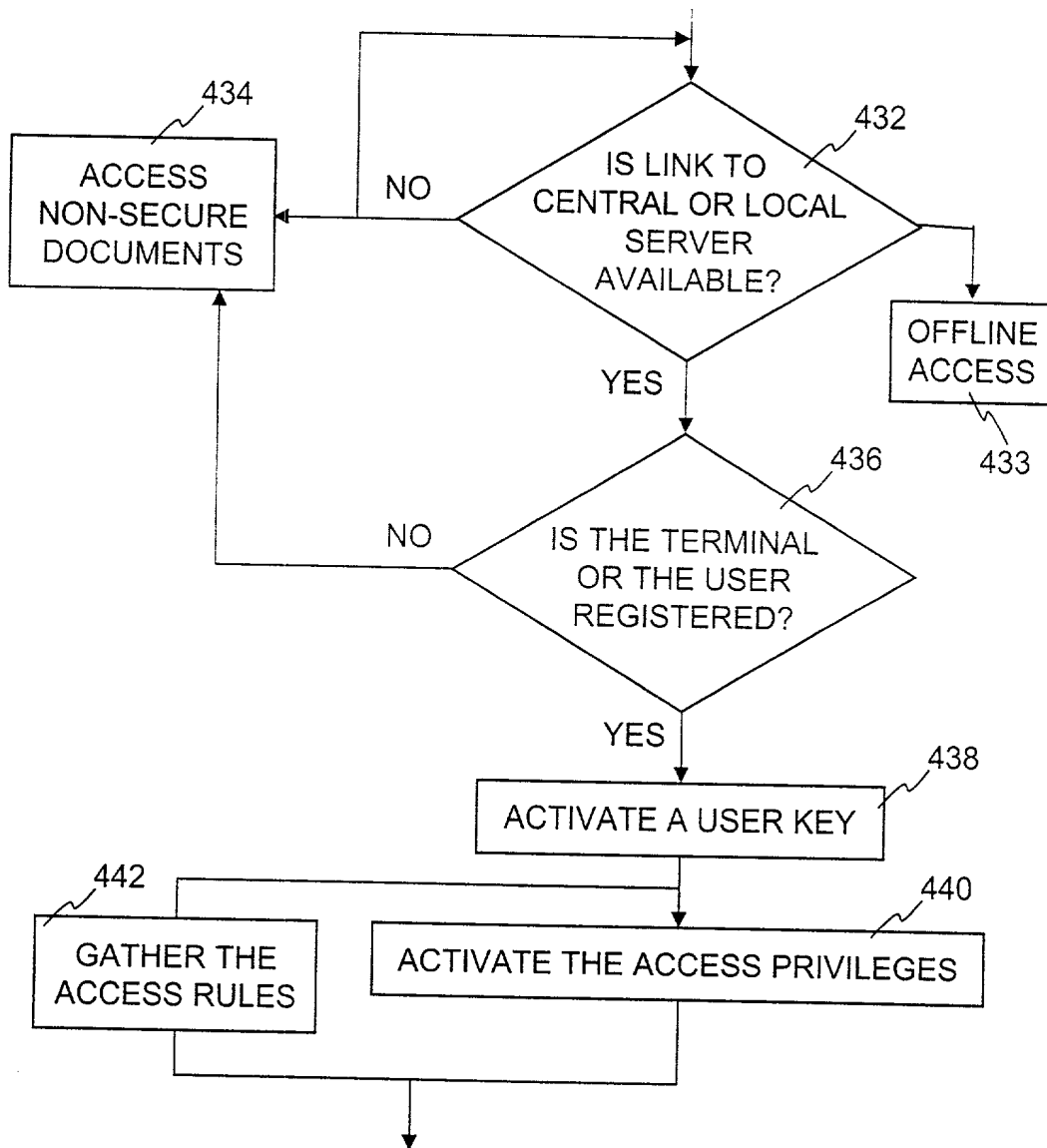
**Fig. 3**

Process of securing  
a document 400



**Fig. 4A**

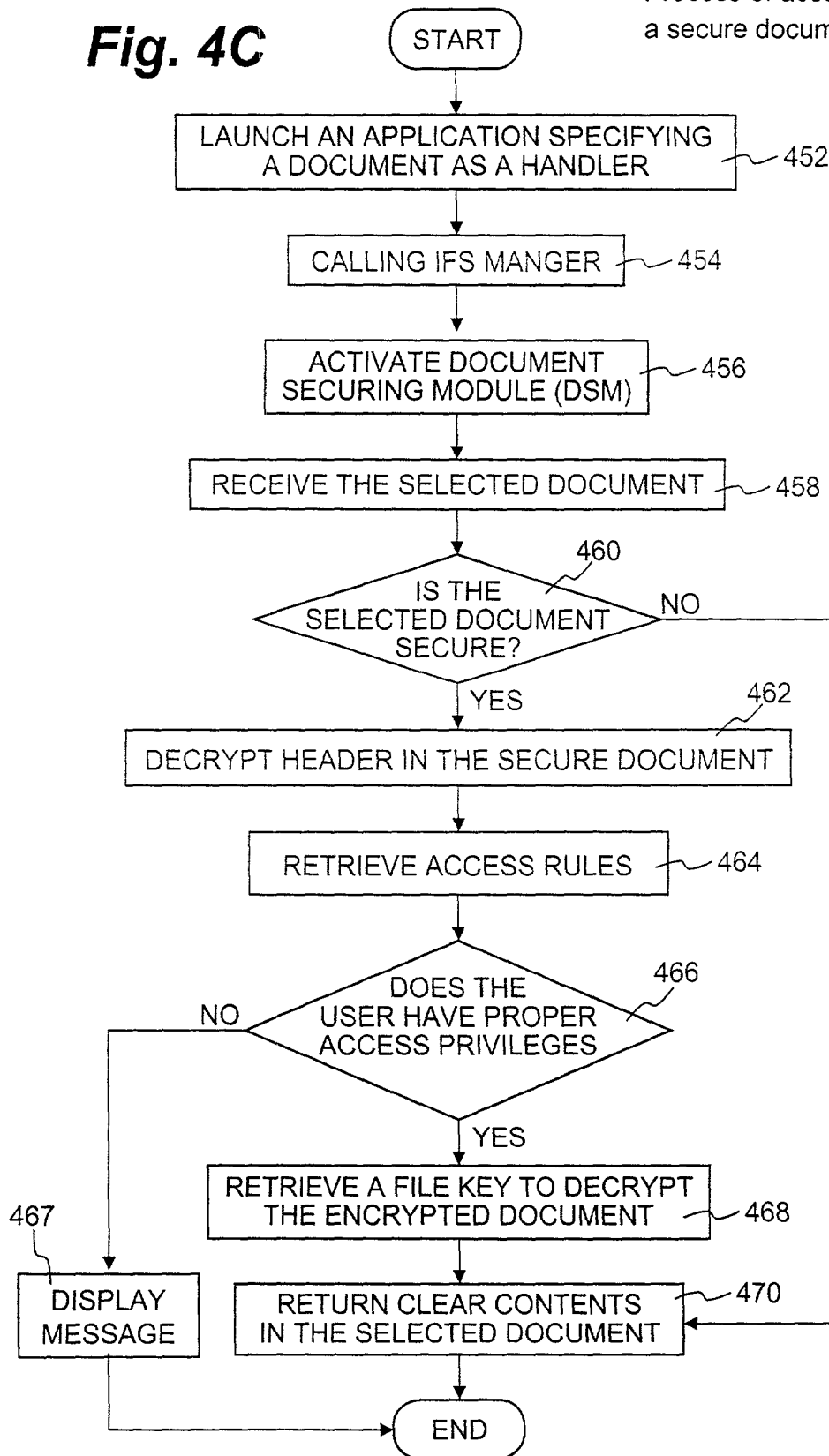
Process of receiving  
access rules 430



**Fig. 4B**

**Fig. 4C**

Process of accessing  
a secure document 450



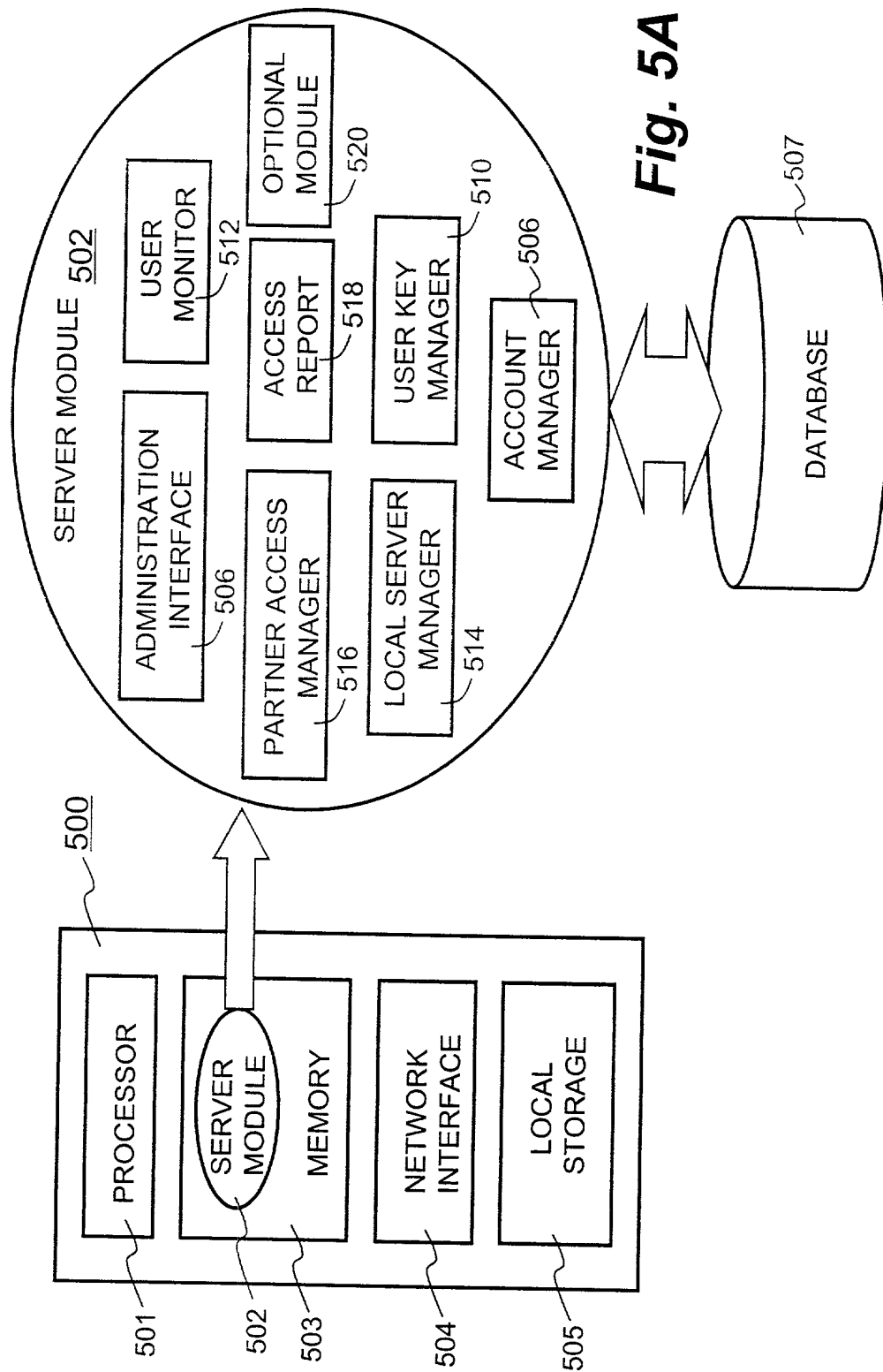


Fig. 5A

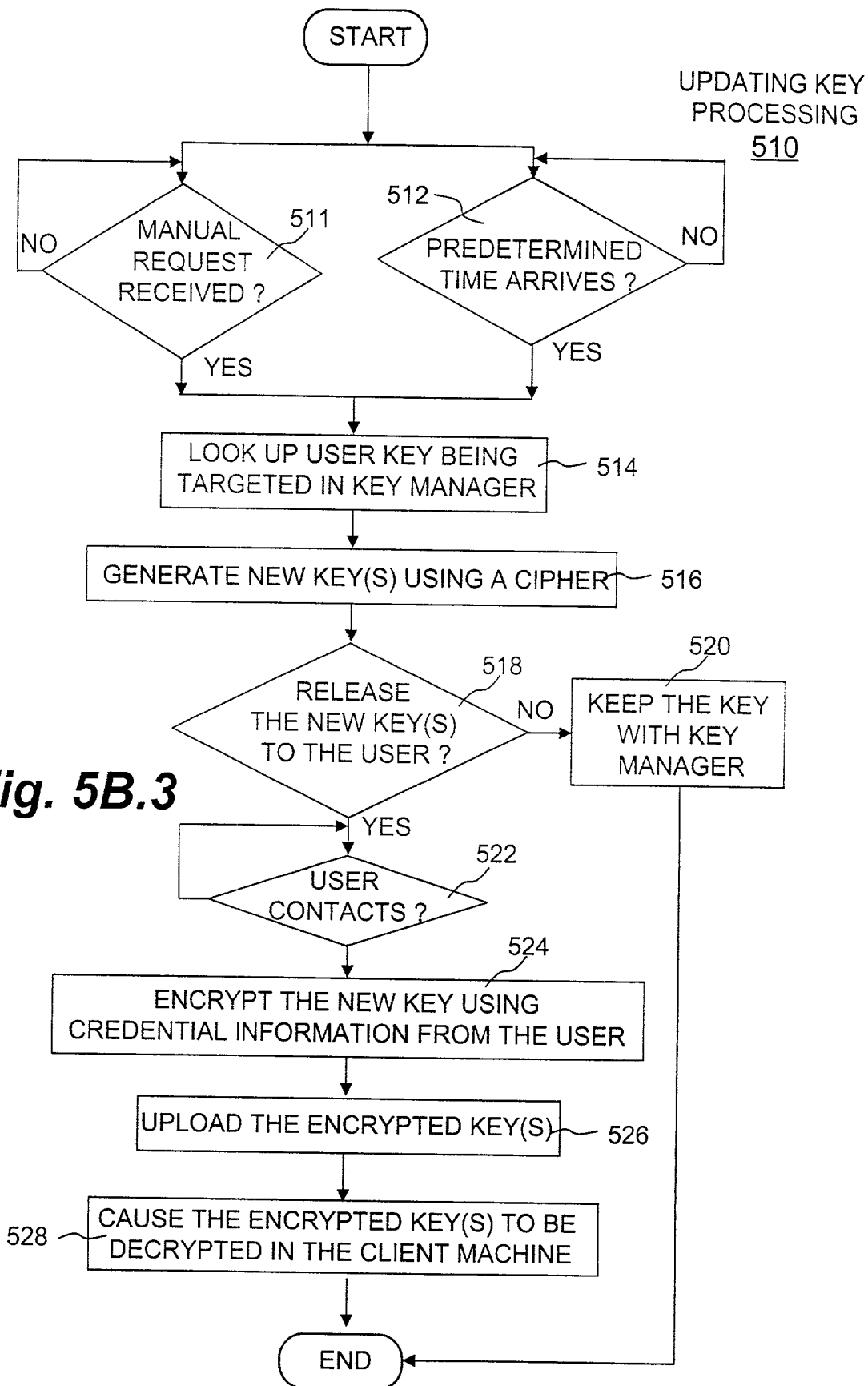


User ID	User	Open	Edit	Write	Print	Copy	Download	Others
01243	User A	Y	Y	Y	Y	Y	Y	Y
17364	User B	Y			Y			
18465	G User C	Y	Y	Y			Y	
• • •								

Fig. 5B.1

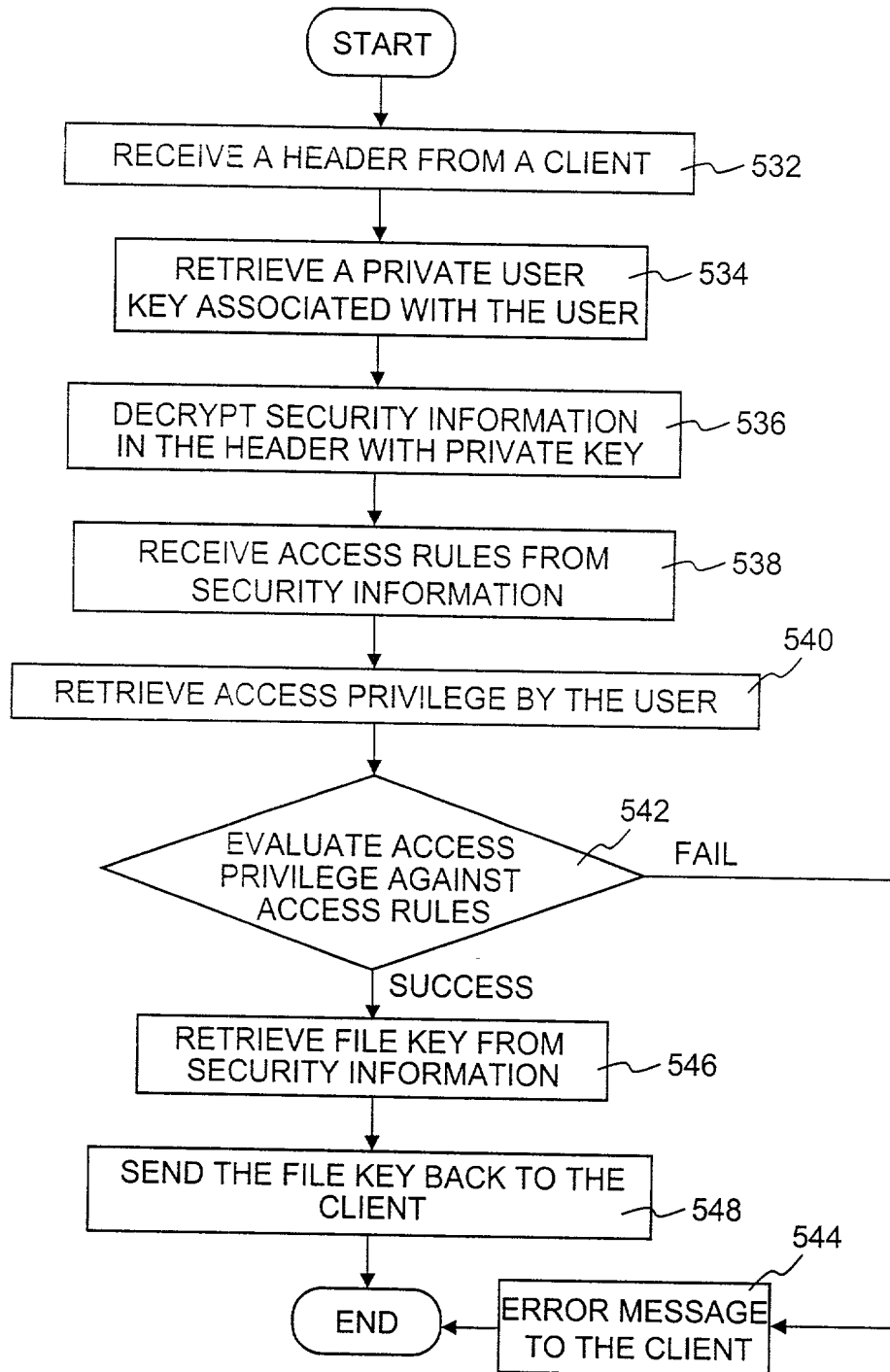
All user keys	Key/Key pair	Location	others
John's	111101101010101	128.1.100.64, ...	
Mike's, Dell's	101011000111111	64.100.1.128, ...	
Finance group	010101010111111	64.100.1.100, ...	
• • •			

Fig. 5B.2



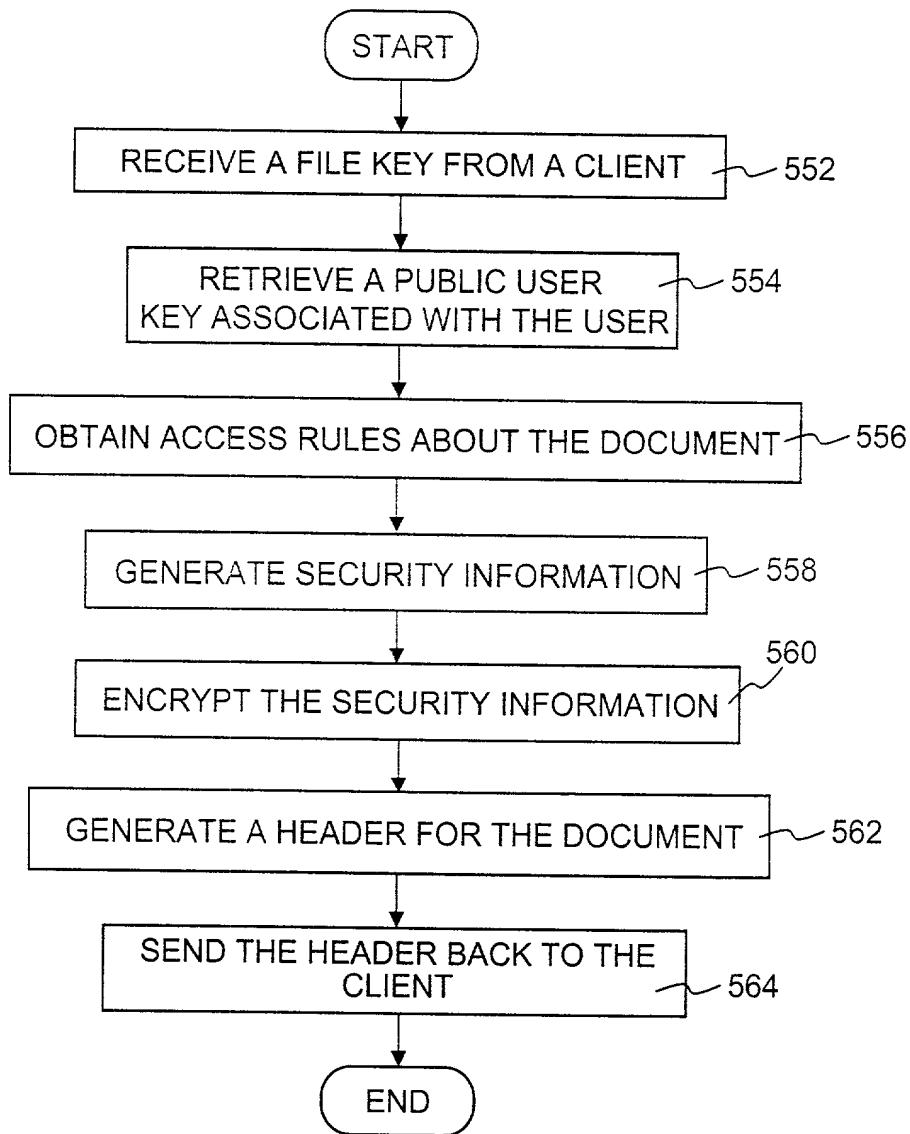
**Fig. 5B.3**

Server Assisted Process  
of Accessing secure  
document 530



**Fig. 5B.4**

Server Assisted Process  
of securing a document  
550



**Fig. 5B.5**

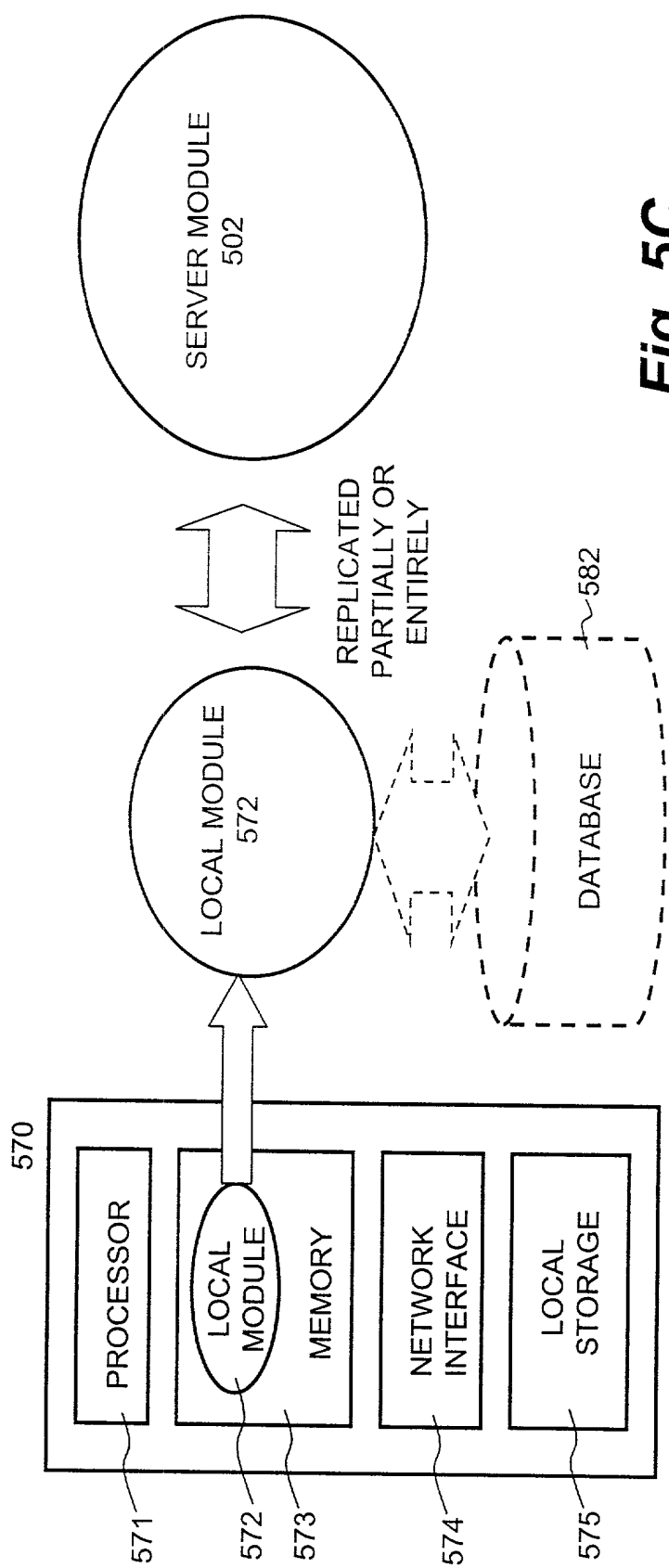


Fig. 5C

584

USER	PASSWORD	ACCESS PRIVILEGES
John	*****	L=10, T=24, D=ALL, C=ALL
Dell	*****	L=1, T=8, D=M-F, C=A
Mike	*****	L=5, T=12, D=M-S, C=A & B
• • •		

585

586

587

Fig. 5D

For Local Server A

USER	PASSWORD
John	*****
Dell	*****
Mike	*****
• • •	

For Local Server B

USER	PASSWORD
John	*****
Mike	*****
• • •	

For Local Server C

USER	PASSWORD
John	*****
• • •	

Fig. 5E

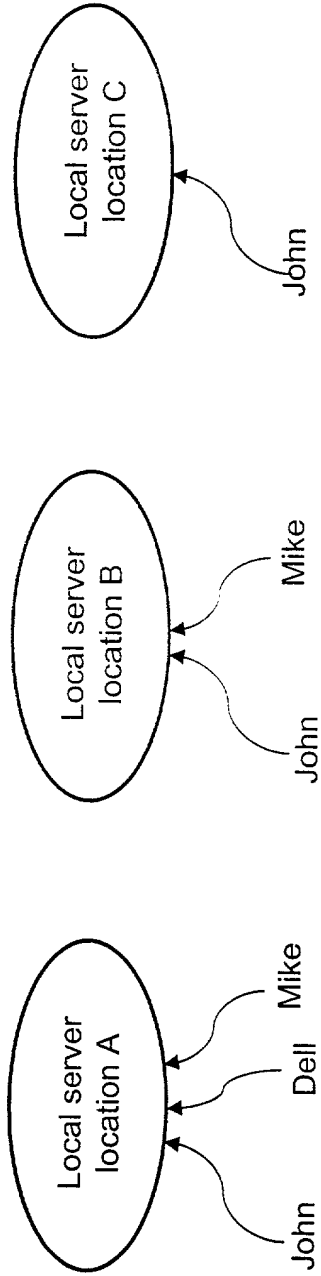


Fig. 5F

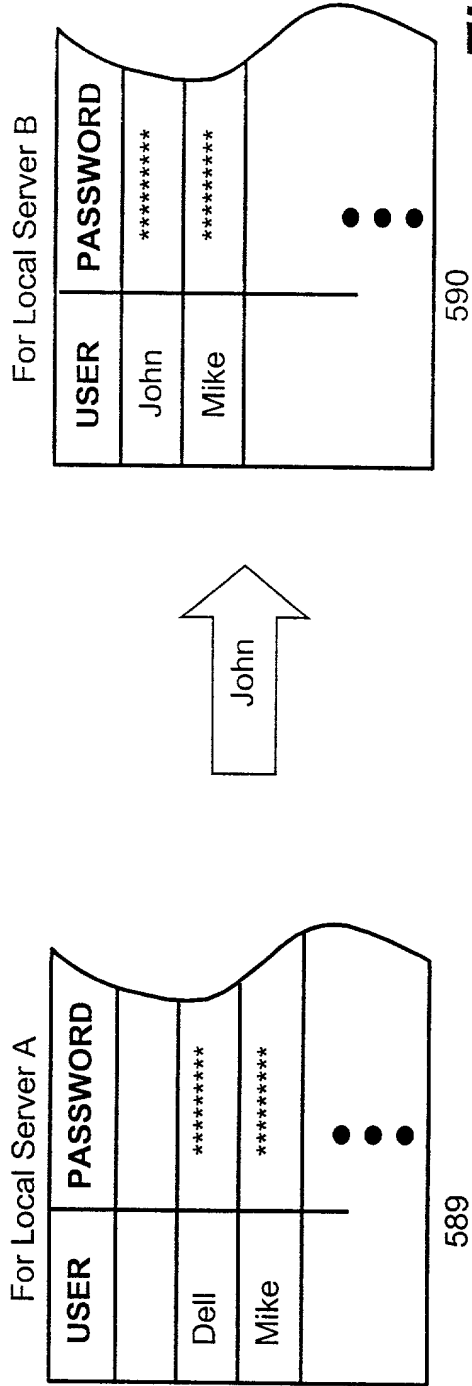
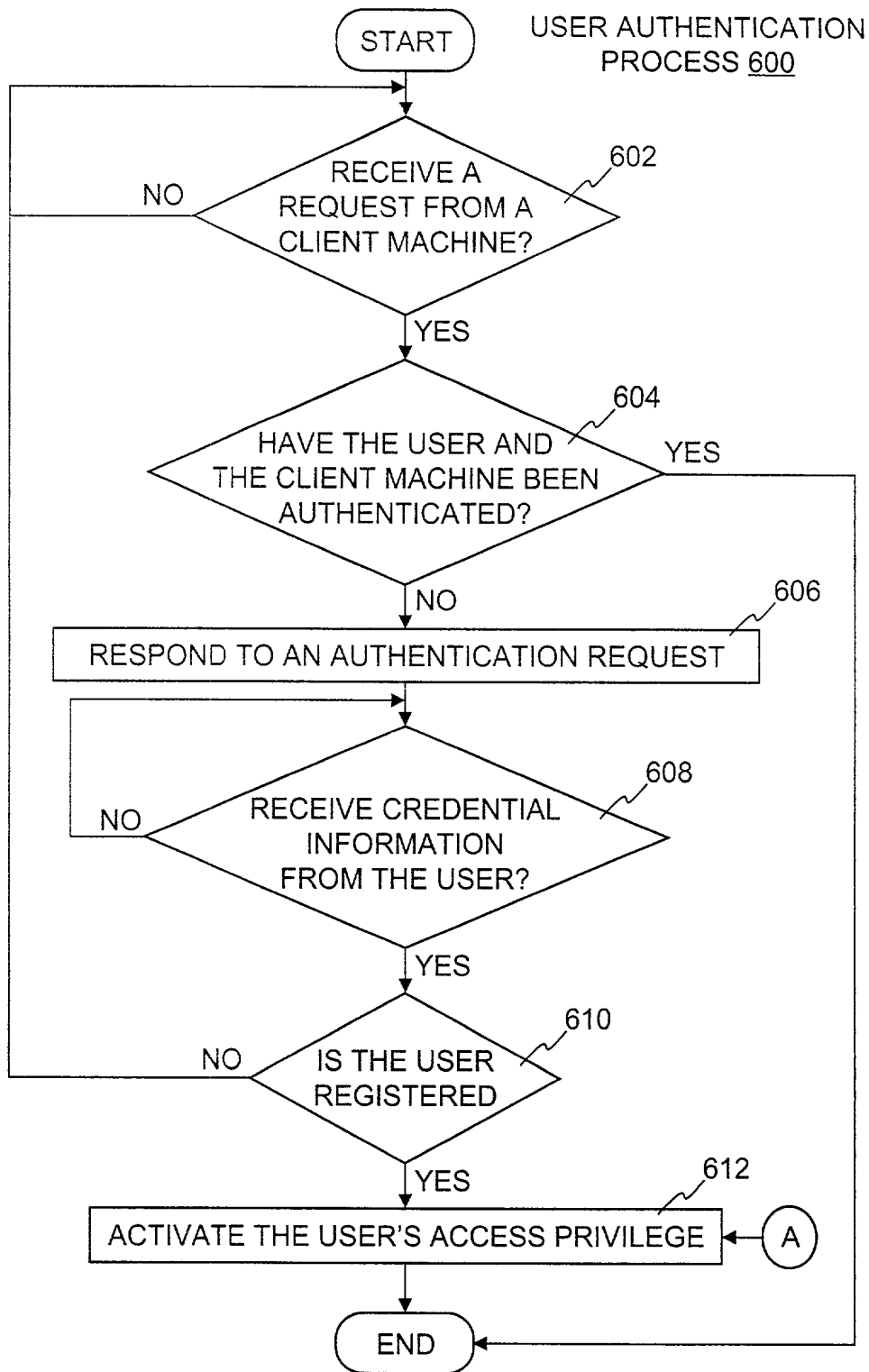


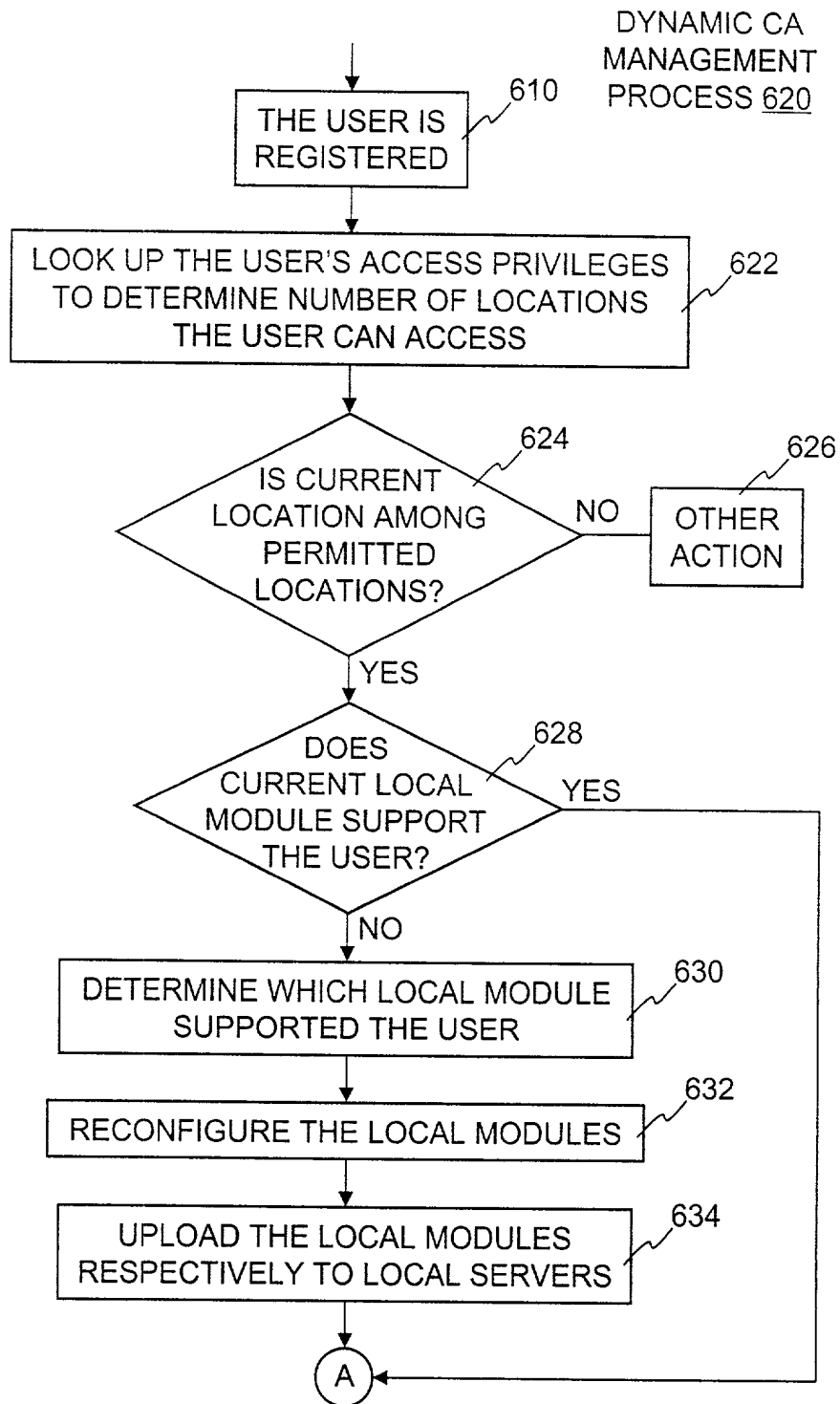
Fig. 5G





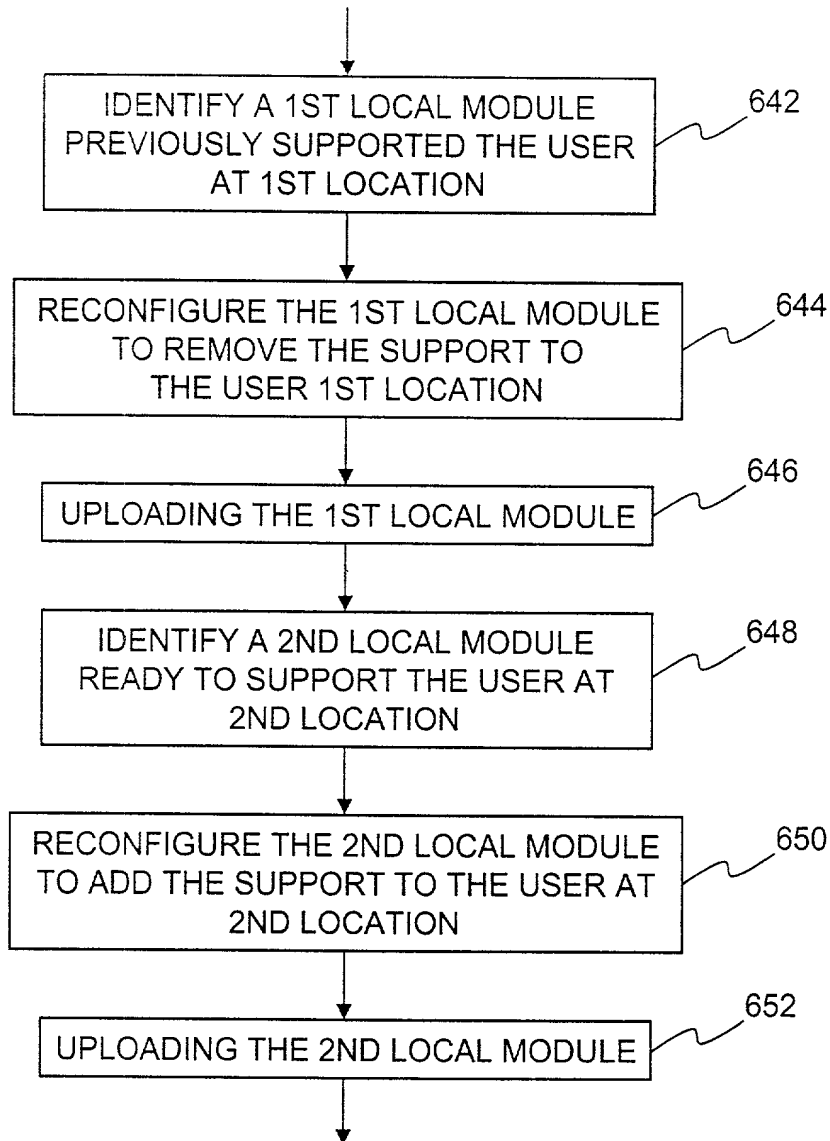


**Fig. 6A**

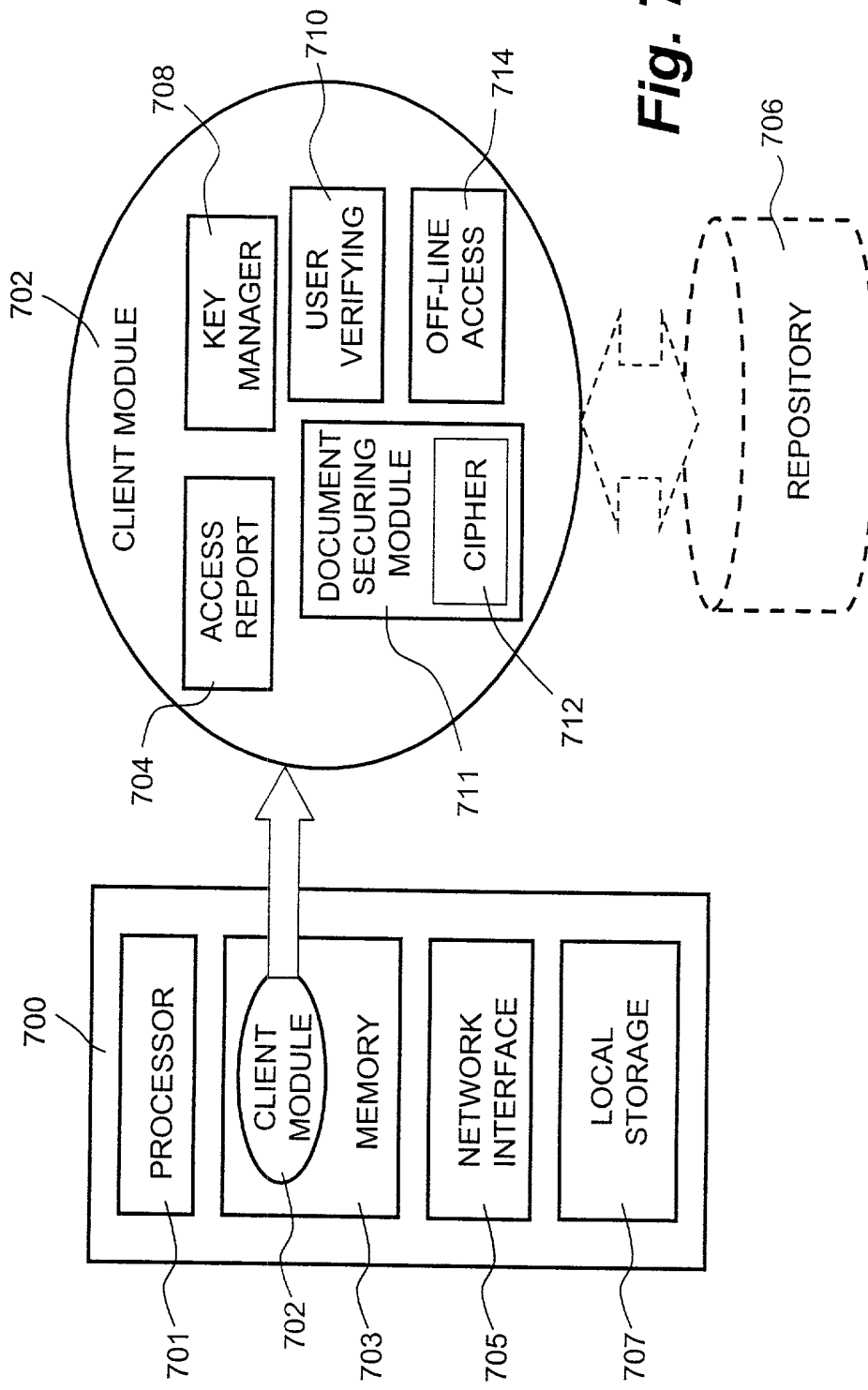


**Fig. 6B**

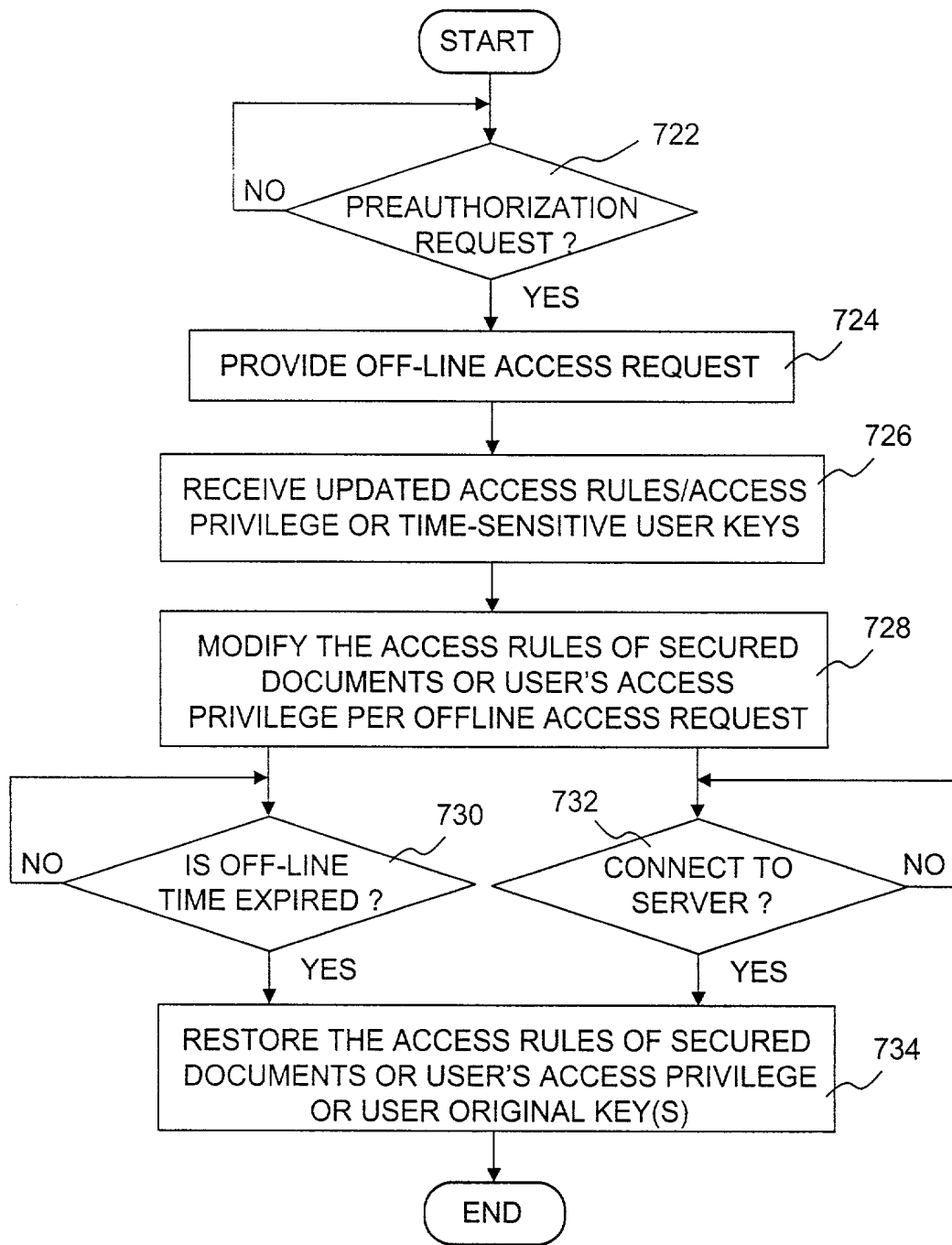
PROCESS OF  
RECONFIGURING  
LOCAL MODULE  
640



**Fig. 6C**



720



**Fig. 7B**

